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NEWS 5 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
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NEWS 7 SEP 21 CA/CAplus fields enhanced with simultaneous left and right
truncation
NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
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FILE 'HOME' ENTERED AT 10:49:13 ON 20 NOV 2006

=> file medline, biosis, wpids, dgene
COST IN U.S. DOLLARS

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FILE 'MEDLINE' ENTERED AT 10:49:38 ON 20 NOV 2006

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=> s triacylglycerol and production
L1 2485 TRIACYLGLYCEROL AND PRODUCTION

=> s triacylglycerol production
L2 96 TRIACYLGLYCEROL PRODUCTION

=> s l1 and l2
L3 96 L1 AND L2

=> s l3 and (enzyme)
L4 45 L3 AND (ENZYME)

=> s l4 and (acyl-CoA-independent reaction)
L5 34 L4 AND (ACYL-COA-INDEPENDENT REACTION)

=> d l5 ti abs ibib 1-15

L5 ANSWER 1 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content

AN 2000-665012 [64] WPIDS

AB WO 2000060095 A2 UPAB: 20050831

NOVELTY - An enzyme catalyzing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a nucleotide sequence encoding the enzyme, or a partial nucleotide sequence corresponding to the full length nucleotide sequence that encodes the enzyme;
- (2) a gene construct comprising the nucleotide sequence operably linked to a heterologous nucleic acid;
- (3) a vector comprising the nucleotide sequence or the gene construct;
- (4) a transgenic cell or organism containing the nucleotide sequence and/or the gene construct and/or the vector;
- (5) a process for producing triacylglycerol comprising growing the transgenic cell organism under conditions where the nucleotide sequence is expressed; and
- (6) triacylglycerol produced by the process of (5).

USE - The enzyme and the nucleotides encoding them are useful for producing triacylglycerol and/or triacylglycerol with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism.

ACCESSION NUMBER: 2000-665012 [64] WPIDS
 DOC. NO. CPI: C2000-201465 [64]
 TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content
 DERWENT CLASS: C06; D16; D23; E17; P13; P14
 INVENTOR: BANAS A; DAHLQVIST A; LEDMAN M; LENMAN M; RONNE H; STAHL U; STYMNE S
 PATENT ASSIGNEE: (BADI-C) BASF PLANT SCI GMBH
 COUNTRY COUNT: 89

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2000060095	A2	20001012	(200064)*	EN	97[6]	
AU 2000038147	A	20001023	(200107)	EN		
NO 2001004716	A	20011128	(200208)	NO		
EP 1165803	A2	20020102	(200209)	EN		
CZ 2001003529	A3	20020213	(200221)	CS		
BR 2000009510	A	20020423	(200235)	PT		
KR 2001112396	A	20011220	(200239)	KO		
SK 2001001387	A3	20020604	(200247)	SK		
HU 2002000480	A2	20020729	(200258)	HU		
JP 2002541783	W	20021210	(200301)	JA	90	
CN 1362994	A	20020807	(200304)	ZH		
NZ 514227	A	20031219	(200404)	EN		
MX 2001009577	A1	20030701	(200420)	ES		
AU 777031	B2	20040930	(200480)	EN		
RU 2272073	C2	20060320	(200620)	RU		
CN 1230541	C	20051207	(200654)	ZH		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000060095	A2	WO 2000-EP2701	20000328
AU 2000038147	A	AU 2000-38147	20000328
AU 777031	B2	AU 2000-38147	20000328
BR 2000009510	A	BR 2000-9510	20000328
CN 1362994	A	CN 2000-805998	20000328
EP 1165803	A2	EP 2000-917001	20000328
JP 2002541783	W	JP 2000-609586	20000328
NZ 514227	A	NZ 2000-514227	20000328
NO 2001004716	A	WO 2000-EP2701	20000328
EP 1165803	A2	WO 2000-EP2701	20000328
CZ 2001003529	A3	WO 2000-EP2701	20000328
BR 2000009510	A	WO 2000-EP2701	20000328
SK 2001001387	A3	WO 2000-EP2701	20000328
HU 2002000480	A2	WO 2000-EP2701	20000328
JP 2002541783	W	WO 2000-EP2701	20000328
NZ 514227	A	WO 2000-EP2701	20000328
MX 2001009577	A1	WO 2000-EP2701	20000328
RU 2272073	C2	WO 2000-EP2701	20000328
CZ 2001003529	A3	CZ 2001-3529	20000328

RU 2272073 C2
 SK 2001001387 A3
 MX 2001009577 A1
 NO 2001004716 A
 KR 2001112396 A
 HU 2002000480 A2
 CN 1230541 C

RU 2001-129499 20000328
 SK 2001-1387 20000328
 MX 2001-9577 20010924
 NO 2001-4716 20010928
 KR 2001-712623 20010929
 HU 2002-480 20000328
 CN 2000-805998 20000328

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
AU 777031	B2	Previous Publ	AU 2000038147	A
AU 2000038147	A	Based on	WO 2000060095	A
EP 1165803	A2	Based on	WO 2000060095	A
CZ 2001003529	A3	Based on	WO 2000060095	A
BR 2000009510	A	Based on	WO 2000060095	A
SK 2001001387	A3	Based on	WO 2000060095	A
HU 2002000480	A2	Based on	WO 2000060095	A
JP 2002541783	W	Based on	WO 2000060095	A
NZ 514227	A	Based on	WO 2000060095	A
MX 2001009577	A1	Based on	WO 2000060095	A
AU 777031	B2	Based on	WO 2000060095	A
RU 2272073	C2	Based on	WO 2000060095	A

PRIORITY APPLN. INFO: US 2000-180687P 20000207
 EP 1999-106656 19990401
 EP 1999-111321 19990610

L5 ANSWER 2 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 AN AAB24267 Protein DGENE
 AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the Zea mays PDAT amino acid sequence.

ACCESSION NUMBER: AAB24267 Protein DGENE
 TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
 PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.
 PATENT INFO: WO 2000060095 A2 20001012 97
 APPLICATION INFO: WO 2000-EP2701 20000328
 PRIORITY INFO: EP 1999-106656 19990401
 EP 1999-111321 19990610
 US 2000-180687 20000207
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 2000-665012 [64]

CROSS REFERENCES: N-PSDB: AAC64445

DESCRIPTION: Zea mays PDAT amino acid sequence SEQ ID NO:7b.

L5 ANSWER 3 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for triacylglycerol production and DNAs
encoding them, useful for producing triacylglycerol, or for
transforming any cell or organism to increase oil content -
AN AAB24266 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an
acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of
triacylglycerol (TAG). The enzyme is designated as
phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
and the nucleotides encoding them are useful for producing TAG and/or TAG
with uncommon fatty acids. The enzyme and the nucleotide are
also useful for transforming any cell or organism in order to be
expressed in this cell or organism and result in an altered, preferably
increased oil content of this cell or organism. The present sequence
represents the yeast (*Saccharomyces cerevisiae*) PDAT amino acid sequence.

ACCESSION NUMBER: AAB24266 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the
biosynthetic pathway for triacylglycerol
production and DNAs encoding them, useful for
producing triacylglycerol, or for transforming any
cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

CROSS REFERENCES: N-PSDB: AAC64441

DESCRIPTION: *Saccharomyces cerevisiae* PDAT amino acid sequence SEQ ID
NO:2b.

L5 ANSWER 4 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for triacylglycerol production and DNAs
encoding them, useful for producing triacylglycerol, or for
transforming any cell or organism to increase oil content -
AN AAB24265 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an
acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of
triacylglycerol (TAG). The enzyme is designated as
phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
and the nucleotides encoding them are useful for producing TAG and/or TAG
with uncommon fatty acids. The enzyme and the nucleotide are
also useful for transforming any cell or organism in order to be
expressed in this cell or organism and result in an altered, preferably
increased oil content of this cell or organism. The present sequence
represents the yeast (*Saccharomyces cerevisiae*) PDAT ORF (open reading
frame) amino acid sequence.

ACCESSION NUMBER: AAB24265 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the
biosynthetic pathway for triacylglycerol

production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

CROSS REFERENCES: N-PSDB: AAC64440

DESCRIPTION: Saccharomyces cerevisiae PDAT ORF amino acid sequence SEQ ID NO:5a.

L5 ANSWER 5 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24264 Protein DGENE

AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24264 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:3a.

L5 ANSWER 6 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24263 Protein DGENE

AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of

triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24263 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:2a.

L5 ANSWER 7 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
AN AAB24262 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the yeast (*Saccharomyces cerevisiae*) PDAT ORF (open reading frame) amino acid sequence.

ACCESSION NUMBER: AAB24262 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
DESCRIPTION: *Saccharomyces cerevisiae* PDAT ORF amino acid sequence SEQ ID NO:1a.

L5 ANSWER 8 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 AN AAB24261 Protein DGENE
 AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24261 Protein DGENE
 TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
 PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.
 PATENT INFO: WO 2000060095 A2 20001012 97
 APPLICATION INFO: WO 2000-EP2701 20000328
 PRIORITY INFO: EP 1999-106656 19990401
 EP 1999-111321 19990610
 US 2000-180687 20000207
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 2000-665012 [64]
 DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:15.

L5 ANSWER 9 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 AN AAB24260 Protein DGENE
 AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24260 Protein DGENE
 TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
 INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
 PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:14.

L5 ANSWER 10 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for triacylglycerol production and DNAs
encoding them, useful for producing triacylglycerol, or for
transforming any cell or organism to increase oil content -
AN AAB24259 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an
acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of
triacylglycerol (TAG). The enzyme is designated as
phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
and the nucleotides encoding them are useful for producing TAG and/or TAG
with uncommon fatty acids. The enzyme and the nucleotide are
also useful for transforming any cell or organism in order to be
expressed in this cell or organism and result in an altered, preferably
increased oil content of this cell or organism. The present sequence
represents the Schizosaccharomyces pombe PDAT amino acid sequence.

ACCESSION NUMBER: AAB24259 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the
biosynthetic pathway for triacylglycerol
production and DNAs encoding them, useful for
producing triacylglycerol, or for transforming any
cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Schizosaccharomyces pombe PDAT amino acid sequence SEQ ID
NO:13.

L5 ANSWER 11 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for triacylglycerol production and DNAs
encoding them, useful for producing triacylglycerol, or for
transforming any cell or organism to increase oil content -
AN AAB24258 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an
acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of
triacylglycerol (TAG). The enzyme is designated as
phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
and the nucleotides encoding them are useful for producing TAG and/or TAG
with uncommon fatty acids. The enzyme and the nucleotide are
also useful for transforming any cell or organism in order to be
expressed in this cell or organism and result in an altered, preferably

increased oil content of this cell or organism. The present sequence represents the Zea mays PDAT protein.

ACCESSION NUMBER: AAB24258 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
CROSS REFERENCES: N-PSDB: AAC64435
DESCRIPTION: Zea mays EST PDAT protein sequence SEQ ID NO:8.

L5 ANSWER 12 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
AN AAB24257 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the Arabidopsis thaliana PDAT protein.

ACCESSION NUMBER: AAB24257 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
CROSS REFERENCES: N-PSDB: AAC64434
DESCRIPTION: Arabidopsis thaliana PDAT protein SEQ ID NO:6.

L5 ANSWER 13 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24256 Protein DGENE
AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the yeast (*Saccharomyces cerevisiae*) PDAT protein.

ACCESSION NUMBER: AAB24256 Protein DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
CROSS REFERENCES: N-PSDB: AAC64431
DESCRIPTION: *Saccharomyces cerevisiae* PDAT protein sequence SEQ ID NO:2.

L5 ANSWER 14 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAC64451 DNA DGENE
AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents a PCR primer for yeast (*Saccharomyces cerevisiae*) PDAT.

ACCESSION NUMBER: AAC64451 DNA DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.
PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207

DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]
DESCRIPTION: Saccharomyces cerevisiae PDAT PCR primer #2.

L5 ANSWER 15 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for triacylglycerol production and DNAs
encoding them, useful for producing triacylglycerol, or for
transforming any cell or organism to increase oil content -
AN AAC64450 DNA DGENE
AB The present invention describes an enzyme for catalysing (in an
acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of
triacylglycerol (TAG). The enzyme is designated as
phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
and the nucleotides encoding them are useful for producing TAG and/or TAG
with uncommon fatty acids. The enzyme and the nucleotide are
also useful for transforming any cell or organism in order to be
expressed in this cell or organism and result in an altered, preferably
increased oil content of this cell or organism. The present sequence
represents a PCR primer for yeast (Saccharomyces cerevisiae) PDAT.

ACCESSION NUMBER: AAC64450 DNA DGENE
TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the
biosynthetic pathway for triacylglycerol
production and DNAs encoding them, useful for
producing triacylglycerol, or for transforming any
cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Saccharomyces cerevisiae PDAT PCR primer #1.

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Search Results -

Terms	Documents
L4 and L3	1

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US OCR Full-Text Database

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<u>L5</u>	L4 and l3	1	<u>L5</u>
<u>L4</u>	dahlqvist.in.	23	<u>L4</u>
<u>L3</u>	L2 and (acyl-CoA independent)	27796	<u>L3</u>
<u>L2</u>	L1 and (enzyme)	91610	<u>L2</u>
<u>L1</u>	triacylglycerol production	819119	<u>L1</u>

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☐ 1. Document ID: US 6791008 B1

L5: Entry 1 of 1

File: USPT

Sep 14, 2004

US-PAT-NO: 6791008

DOCUMENT-IDENTIFIER: US 6791008 B1

TITLE: Use of a class of enzymes and their encoding genes to increase the oil content in transgenic organisms

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Banas; Antoni	Siedlce			PL
Sandager; Line	Copenhagen			DK
St.ang.hl; Ulf	Uppsala			SE
<u>Dahlgvist</u> ; Anders	Furulund			SE
Lenman; Marit	Lund			SE
Ronne; Hans	Uppsala			SE
Stymne; Sten	Svalov			SE

US-CL-CURRENT: 800/281; 435/224, 435/471, 435/483, 536/23.1, 536/23.2, 536/23.7, 800/278, 800/298, 800/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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